

Appl. No. 10/517,244  
Reply to Office Action of August 5, 2005

Amendments to the Specification:

Please replace the abstract with the following rewritten abstract:

A hydrogen occluding material represented by the formula AlH<sub>x</sub> (where 0 ≤ x ≤ 3), which occludes much more hydrogen than conventional alkali metal hydride (such as NaAlH<sub>4</sub>) through reversible reactions and yet permits hydrogen occlusion and release in one stage at a lower operating temperature of 200°C or below, and a method for using said hydrogen occluding material are provided.

A hydrogen occluding material which comprises an aluminum hydride represented by the formula (1) below.

AlH<sub>x</sub> ... (1)

(where 0 ≤ x ≤ 3.)

A method for using a hydrogen occluding material, said method comprising hydrogenating and/or dehydrogenating at 200°C or below a hydrogen occluding material composed of an aluminum hydride represented by the formula (1) above.

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